## **EAST Search History**

## EAST Search History (Prior Art)

| Ref<br># | Hits  | Search Query  | DBs                | Default<br>Operator | Plurals | Time Stamp          |
|----------|-------|---|--------------------|---------------------|---------|---------------------|
| L2       | 110   | (optical near3 sensor) near20<br>(combustion near3 chamber)   | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>11:54 |
| L3       | 286   | (optical near3 sensor) near20 combustion  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>11:55 |
| L4       | 2058  | 359/819.cds.  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>12:21 |
| L5       | 114   | 73/35.07,114.09.ccls.   | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>12:22 |
| L6       | 1014  | 359/800,799,691,739.cds.  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>12:22 |
| L7       | 1     | 3 and 4   | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>12:22 |
| L8       | 27    | 3 and (5 6)   | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>12:22 |
| L9       | 716   | (waveguide wave-guide ((light<br>ray beam illumination) near3<br>pipe guide)) near20 lens<br>near20 concave | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>14:03 |
| L10      | 5     | 4 and 9   | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>14:04 |
| L11      | 2179  | double near3 concave  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>14:29 |
| L12      | 13    | 9 and 11  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>14:29 |
| L13      | 11    | (monitor\$3 near3 combustion)<br>near20 lens  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>14:34 |
| L14      | 83408 | combustion near3 chamber  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:20 |
| L15      | 1     | 9 and 14  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:20 |
| L16      | 4     | double near3 concave near20 sensor  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:21 |
| L17      | 1606  | plano-concave near3 lens  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:23 |
| L18      | 48    | 9 and 17  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:23 |
| L19      | 20    | (lens near4 system) near5<br>(combustion)   | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:33 |
| L20      | 24518 | sensor near20 combustion  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:33 |
| L21      | 5496  | sensor near20 (combustion near5 chamber)  | US-PGPUB;<br>USPAT | OR                  | ON      | 2010/04/09<br>15:34 |

| L22 | 7       | (sensor near20 (combustion<br>near5 chamber)) same concave  | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:34 |
|-----|---------|---|----------------------------|----|-----|---------------------|
| L23 | 653     | waveguide near20 sheath   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:36 |
| L24 | 10      | waveguide near20 sheath<br>near20 (sesnor detect\$3)  | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:37 |
| L25 | 7       | (solder\$3 near20 gap) same<br>(combustion near3 chamber)   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:39 |
| L26 | 1345    | (double near3 concave near3 lens)   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:49 |
| L27 | 1155627 | (waveguide wave-guide ((light<br>ray beam illumination) near3<br>pipe guide))   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:49 |
| L28 | 273     | 26 and 27   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:49 |
| L29 | 23      | (waveguide wave-guide ((light<br>ray beam illumination) near3<br>pipe guide)) same (double<br>near3 concave near3 lens) | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:50 |
| L30 | 3       | combustion near3 chamber<br>same (double near3 concave<br>near3 lens)   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>15:53 |
| L31 | 2       | (("4419212") or ("4393687")).<br>PN.  | US-PGPUB;<br>USPAT         | OR | OFF | 2010/04/09<br>16:02 |
| L32 | 74      | (optical near3 sensor) near20<br>(combustion near3 chamber)   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L33 | 192     | (optical near3 sensor) near20 combustion  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L34 | 261     | (waveguide wave-guide ((light<br>ray beam illumination) near3<br>pipe guide)) near20 lens<br>near20 concave             | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L35 | 687     | double near3 concave  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L36 | 7       | (monitor\$3 near3 combustion)<br>near20 lens  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L37 | 99071   | combustion near3 chamber  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L38 | 4       | double near3 concave near20 sensor  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:41 |
| L39 | 379     | plano-concave near3 lens  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L40 | 12      | (lens near4 system) near5<br>(combustion)   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L41 | 20086   | sensor near20 combustion  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L42 | 2533    | sensor near20 (combustion near5 chamber)  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L43 | 1       | (sensor near20 (combustion<br>near5 chamber)) same concave  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |

| L44 | 325 | waveguide near20 sheath   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
|-----|-----|---|----------------------------|----|-----|---------------------|
| L45 | 308 | (double near3 concave near3 lens)   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L46 | 3   | (waveguide wave-guide ((light<br>ray beam illumination) near3<br>pipe guide)) same (double<br>near3 concave near3 lens) | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L47 | 1   | combustion near3 chamber<br>same (double near3 concave<br>near3 lens)   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:42 |
| L48 | 0   | 44 and 45   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:50 |
| L49 | 1   | 34 and 45   | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>16:51 |
| L50 | 0   | (spark near3 plugs) near20<br>(double near3 concave near3<br>lens)  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>17:41 |
| L51 | 0   | (spark near3 plugs) same<br>(double near3 concave near3<br>lens)  | FPRS; EPO;<br>JPO; DERWENT | OR | ON  | 2010/04/09<br>17:41 |
| L52 | 1   | (spark near3 plugs) near20<br>(double near3 concave near3<br>lens)  | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>17:41 |
| L53 | 2   | (spark near3 plugs) same<br>(double near3 concave near3<br>lens)  | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>17:42 |
| L54 | 3   | (spark near3 plugs) and<br>(double near3 concave near3<br>lens)   | US-PGPUB;<br>USPAT         | OR | ON  | 2010/04/09<br>17:43 |
| S1  | 5   | (("4753224") or ("5335061") or<br>("6320184") or<br>("20020027723") or<br>("20020134138")).PN.                          | US-PGPUB;<br>USPAT         | OR | OFF | 2010/04/08<br>16:01 |

## EAST Search History (Interference)

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## 4/9/2010 8:02:43 PM

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